

## Appendix D

### Loon/Grebe REA Details

#### INJURY CALCULATION

<b>Species</b>	<b>Total Estimated Dead</b>	<b>Bird-Year Multiplier</b>	<b>Total Lost Bird-Years</b>
Red-throated Loon	7	6.30	44
Common Loon	38	6.30	239
Pied-billed Grebe	1	6.30	3
Eared Grebe	6	2.64	16
Western Grebe	24	2.64	63
grebe, sp.	1	2.64	3
<b>TOTAL</b>	<b>77</b>		<b>368</b>

See Appendix C for derivation of bird-year multipliers.

#### CREDIT CALCULATION (projected restoration benefits)

<b>Year</b>	<b>Increased Nests</b>	<b>Increased Fledges</b>	<b>Increased Bird-Years</b>	<b>Discounted to 1998</b>
2003	0	0	0	0
2004	30	55	140	117
2005	30	55	140	114
2006	30	55	140	110
2007	30	55	140	107
2008	30	55	140	104
2009	30	55	140	101
2010	30	55	140	98
2011	30	55	140	95
2012	30	55	140	92
2013	30	55	140	90
2014	30	55	140	87
Continues to 2104.	Continues to 2104.	Based on 1.82 fledges per nest.	Based on 2.560 bird- years per fledge (life expectancy of a fledge)	Discounted at 3% per year
<b>Total:</b>				<b>3,816</b>

Contribution toward similar project would be  $3,816/368 = 10\%$ .